

<110> Goold, Richard D.
 Akerblom, Ingrid E.
 Seilhamer, Jeffrey J.
 Coleman, Roger

<120> TUMOR SUPPRESSOR

<130> PC-0049 CIP

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<141> Herewith

<160> 21

<170> PERL Program

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<211> 373

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: PANC1A

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<221> unsure

<222> 20, 303, 340-341

<223> a, t, c, g, or other

<400> 1

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aaattgaagt caaccacaga gtcgtatggt tttcacatc atagtaatgc tgattttcac 300
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<213> Homo sapiens

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<223> Incyte ID No: PANC1B

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<221> unsure

<222> 16, 277, 288, 309

<223> a, t, c, g, or other

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ccacagagtc gtatgttttt cacaatcata gtaatgctga ttttcacagw atccaagaga 240
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321

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<211> 5035

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 496071CB1

<400> 3

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<210> 4

<211> 583

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 496071CD1

<400> 4

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 Glu Ser Tyr Val Phe His Asn His Ser Asn Ala Asp Phe His Arg
 35 40 45
 Ile Gln Glu Lys Thr Gly Asn Asp Trp Val Pro Val Thr Ile Ile
 50 55 60
 Asp Val Arg Gly His Ser Tyr Leu Gln Glu Asn Lys Ile Lys Thr
 65 70 75
 Thr Asp Leu His Arg Pro Leu His Asp Glu Met Pro Gly Asn Arg

| | | | | | |
|-----------------|---------------------|---------------------|-----|--|-----|
| | 80 | | 85 | | 90 |
| Pro Asp Val Ile | Glu Ser Ile Asp Ser | Gln Val Leu Gln Glu | Ala | | |
| | 95 | | 100 | | 105 |
| Arg Pro Pro Leu | Val Ser Ala Asp Asp | Glu Ile Tyr Ser Thr | Ser | | |
| | 110 | | 115 | | 120 |
| Lys Ala Phe Ile | Gly Pro Ile Tyr Lys | Pro Pro Glu Lys Lys | Lys | | |
| | 125 | | 130 | | 135 |
| Arg Asn Glu Gly | Arg Asn Glu Ala His | Val Leu Asn Gly Ile | Asn | | |
| | 140 | | 145 | | 150 |
| Asp Arg Gly Gly | Gln Lys Glu Lys Gln | Lys Phe Asn Ser Glu | Lys | | |
| | 155 | | 160 | | 165 |
| Ser Glu Ile Asp | Asn Glu Leu Phe Gln | Phe Tyr Lys Glu Ile | Glu | | |
| | 170 | | 175 | | 180 |
| Glu Leu Glu Lys | Glu Lys Asp Gly Phe | Glu Asn Ser Cys Lys | Glu | | |
| | 185 | | 190 | | 195 |
| Ser Glu Pro Ser | Gln Glu Gln Phe Val | Pro Phe Tyr Glu Gly | His | | |
| | 200 | | 205 | | 210 |
| Asn Asn Gly Leu | Leu Lys Pro Asp Glu | Glu Lys Lys Asp Leu | Ser | | |
| | 215 | | 220 | | 225 |
| Asn Lys Ala Met | Pro Ser His Cys Asp | Tyr Gln Gln Asn Leu | Gly | | |
| | 230 | | 235 | | 240 |
| Asn Glu Pro Asp | Lys Tyr Pro Cys Asn | Gly Gln Val Ile Pro | Thr | | |
| | 245 | | 250 | | 255 |
| Phe Cys Asp Thr | Ser Phe Thr Ser Phe | Arg Pro Glu Trp Gln | Ser | | |
| | 260 | | 265 | | 270 |
| Val Tyr Pro Phe | Ile Val Pro Tyr Gly | Pro Pro Leu Pro Ser | Leu | | |
| | 275 | | 280 | | 285 |
| Asn Tyr His Leu | Asn Ile Gln Arg Phe | Ser Gly Pro Pro Asn | Pro | | |
| | 290 | | 295 | | 300 |
| Pro Ser Asn Ile | Phe Gln Ala Gln Asp | Asp Ser Gln Ile Gln | Asn | | |
| | 305 | | 310 | | 315 |
| Gly Tyr Tyr Val | Asn Asn Cys His Val | Asn Trp Asn Cys Met | Thr | | |
| | 320 | | 325 | | 330 |
| Phe Asp Gln Asn | Asn Glu Tyr Thr Asp | Cys Ser Glu Asn Arg | Ser | | |
| | 335 | | 340 | | 345 |
| Ser Val His Pro | Ser Gly Asn Gly Cys | Ser Met Gln Asp Arg | Tyr | | |
| | 350 | | 355 | | 360 |
| Val Ser Asn Gly | Phe Cys Glu Val Arg | Glu Arg Cys Trp Lys | Asp | | |
| | 365 | | 370 | | 375 |
| His Cys Met Asp | Lys His Asn Gly Thr | Asp Arg Phe Val Asn | Gln | | |
| | 380 | | 385 | | 390 |
| Gln Phe Gln Glu | Glu Lys Leu Asn Lys | Leu Gln Lys Leu Leu | Ile | | |
| | 395 | | 400 | | 405 |
| Leu Leu Arg Gly | Leu Pro Gly Ser Gly | Lys Thr Thr Leu Ser | Arg | | |
| | 410 | | 415 | | 420 |
| Ile Leu Leu Gly | Gln Asn Arg Asp Gly | Ile Val Phe Ser Thr | Asp | | |
| | 425 | | 430 | | 435 |
| Asp Tyr Phe His | His Gln Asp Gly Tyr | Arg Tyr Asn Val Asn | Gln | | |
| | 440 | | 445 | | 450 |
| Leu Gly Asp Ala | His Asp Trp Asn Gln | Asn Arg Ala Lys Gln | Ala | | |
| | 455 | | 460 | | 465 |
| Ile Asp Gln Gly | Arg Ser Pro Val Ile | Ile Asp Asn Thr Asn | Ile | | |
| | 470 | | 475 | | 480 |
| Gln Ala Trp Glu | Met Lys Pro Tyr Val | Glu Val Ala Ile Gly | Lys | | |
| | 485 | | 490 | | 495 |
| Gly Tyr Arg Val | Glu Phe His Glu Pro | Glu Thr Trp Trp Lys | Phe | | |
| | 500 | | 505 | | 510 |
| Asp Pro Glu Glu | Leu Glu Lys Arg Asn | Lys His Gly Val Ser | Arg | | |
| | 515 | | 520 | | 525 |

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Lys Lys Ile Ala Gln Met Leu Asp Arg Tyr Glu Tyr Gln Met Ser
530 535 540
Ile Ser Ile Val Met Asn Ser Val Glu Pro Ser His Lys Ser Thr
545 550 555
Gln Arg Pro Pro Pro Pro Gln Gly Arg Gln Arg Trp Gly Gly Ser
560 565 570
Leu Gly Ser His Asn Arg Val Cys Val Thr Asn Asn His
575 580

<210> 5
<211> 359
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 071178.assembled

<220>
<221> unsure
<222> 20, 303, 340-341
<223> a, t, c, g, or other

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aaattgaagt caaccacaga gtcgtatggt ttccacaatc atagtaatgc tgattttcac 300
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<210> 6
<211> 213
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<213> Homo sapiens

<220>
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<220>
<221> unsure
<222> 5, 26, 37, 67
<223> a, t, c, g, or other

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gggacctaga gaagaagtaa cgagtgaacc acg 213

<210> 7
<211> 338
<212> DNA
<213> Homo sapiens

<220>
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<220>

<221> unsure

<222> 61, 200, 282, 319-320

<223> a, t, c, g, or other

<400> 7

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aatgattggg tccctgtggn catcattgat gtcagagg 338

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<210> 8

<211> 252

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 555403

<220>

<221> unsure

<222> 16, 124-125, 173, 216, 244

<223> a, t, c, g, or other

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aatnnttggg acctagagaa gaagtaacga gtgagccacg ctgtaaaaaa ttnaagtcaa 180
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aaantggaaa tg 252

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<210> 9

<211> 271

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 020384

<220>

<221> unsure

<222> 7, 227, 238, 259

<223> a, t, c, g, or other

<400> 9

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ttgaagtcaa ccacagagtc gtatgttttt cacaatcata gtaatgctga ttttcacagt 180
atccaagaga aaactggaaa tgatgtgggt ccctgtgacc atcattnatg tcagaggnga 240
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<210> 10

<211> 132

<212> PRT

<213> Homo sapiens

<220>

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<223> Incyte ID No: g533948

<400> 10

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Lys Arg Arg Phe Tyr Trp Glu Val Lys Val Asn Ala Gly Ser Lys
             35             40             45
Met Ser Tyr Gly Glu Ile Glu Gly Lys Phe Leu Gly Pro Arg Glu
             50             55             60
Glu His Asn His Ser Asn Ala Asp Phe His Arg Ile Gln Glu Lys
             65             70             75
Thr Gly Asn Asp Trp Val Pro Val Thr Ile Ile Asp Val Arg Gly
             80             85             90
His Ser Tyr Leu Gln Glu Asn Lys Ile Lys Thr Thr Asp Leu His
             95            100            105
Arg Pro Leu His Asp Glu Met Pro Gly Asn Arg Pro Asp Val Ile
            110            115            120
Glu Ser Ile Asp Ser Gln Val Leu Gln Glu Ala Arg
            125            130

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<210> 11

<211> 407

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: g533948

<400> 11

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agggtcaatgc gtaggggtag agtaagatgt cttatggtga aattgaaggt aaattcttgg 180
gacctagaga agaacacaat catagtaatg ctgattttca cagaatccaa gagaaaactg 240
gaaatgattg ggtccctgtg accatcattg atgtcagagg acatagttat ttgcaggaga 300
acaaaatcaa aactacagat ttgcatagac ctttgcata gaatgcct ggtaatatagac 360
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<210> 12

<211> 104

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: PANC 1B

<220>

<221> unsure

<222> 5, 44, 75, 101

<223> unknown or other

<400> 12

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| Arg | Pro | Arg | Leu | Cys | Cys | Leu | Trp | Phe | Ser | Phe | Thr | Phe | Thr | Glu |
| | | | | 20 | | | | | 25 | | | | | 30 |
| Met | Ser | Tyr | Gly | Glu | Ile | Glu | Gly | Lys | Phe | Leu | Gly | Pro | Xaa | Glu |
| | | | | 35 | | | | | 40 | | | | | 45 |
| Glu | Val | Thr | Ser | Glu | Pro | Arg | Cys | Lys | Lys | Leu | Lys | Ser | Thr | Thr |
| | | | | 50 | | | | | 55 | | | | | 60 |
| Glu | Ser | Tyr | Val | Phe | His | Asn | His | Ser | Asn | Ala | Asp | Phe | His | Xaa |
| | | | | 65 | | | | | 70 | | | | | 75 |
| Ile | Gln | Glu | Lys | Thr | Gly | Asn | Asp | Trp | Val | Pro | Val | Thr | Ile | Ile |
| | | | | 80 | | | | | 85 | | | | | 90 |
| Asp | Val | Arg | Gly | His | Ser | Val | Leu | Gln | Glu | Xaa | Lys | Ile | Lys | |
| | | | | 95 | | | | | 100 | | | | | |

<210> 13

<211> 598

<212> DNA

<213> Rattus norvegicus

<220>

<221> misc_feature

<223> Incyte ID No: 702456952T1

<400> 13

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<210> 14

<211> 549

<212> DNA

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<220>

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<223> Incyte ID No: 700293754F6

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<210> 15

<211> 487

<212> DNA

<213> Macaca fascicularis

[illegible]

<223> Incyte ID No: 703193506J1

<213> Macaca fascicularis

<213> Macaca fascicularis

<213> Canis familiaris

<223> a, t, c, g, or other

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<220>
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<220>
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<210> 21

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<211> 254

<212> DNA

<213> Mus muscularis

<220>

<221> misc_feature

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400 21 455 254